

# THE BULLETIN

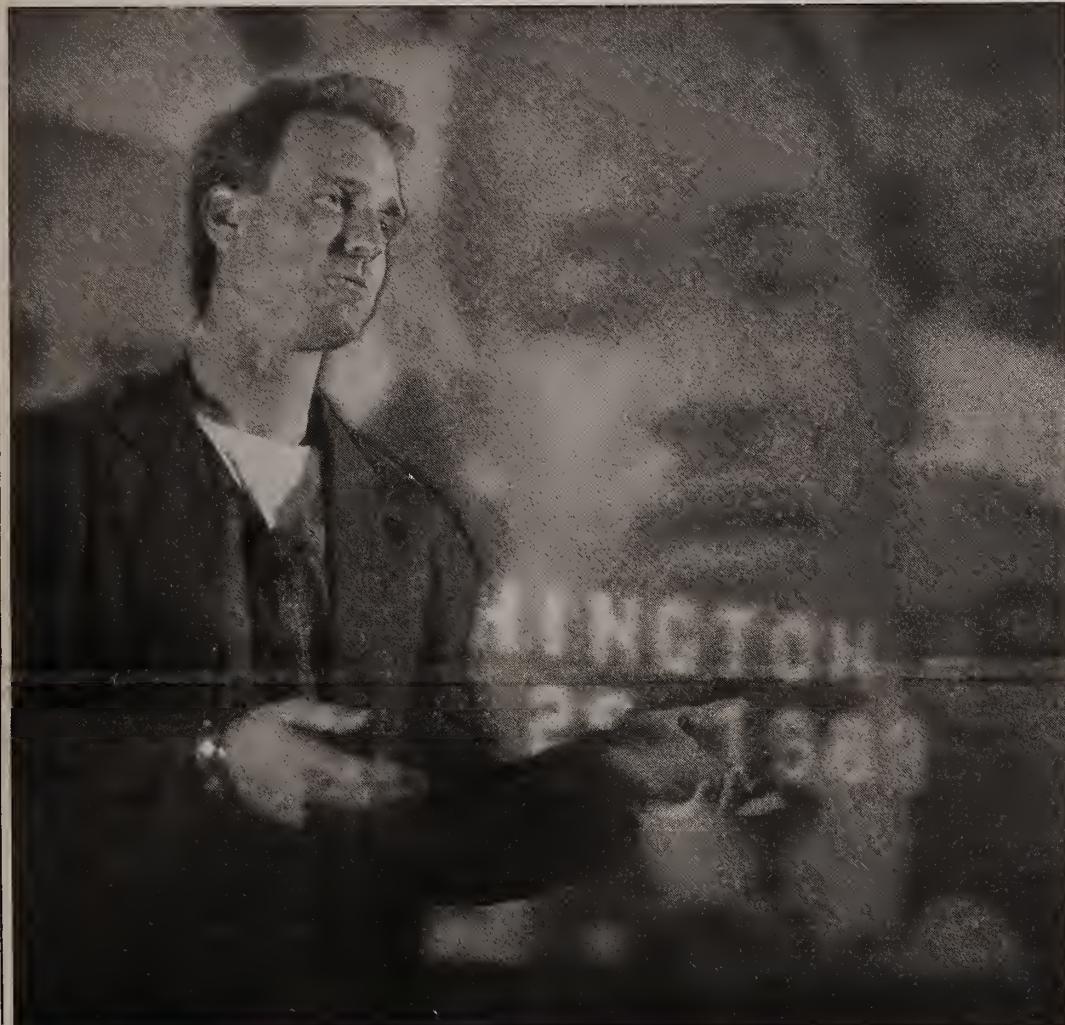
FEBRUARY 3, 1998 ~ 51ST YEAR ~ NUMBER 12

## PROFILE

## HISTORY ON THE FLY

*Putting on a new history course at the last minute has its challenges*

BY BRUCE ROLSTON



**M**ONDAY, JAN. 5, SIDNEY SMITH HALL. "Let's say I'm someone who already knows a lot about American history. Am I going to learn anything from you?"

Lecturer Murray Wickett smiles at the confrontational young undergraduate. She and her classmates have just had the news that the history course they were expecting has been cancelled due to a professor's ill-health. Instead, they heard the young sessional instructor who broke the news tell them he'll be teaching a new course of his own design, on race and immigration in 19th-century America, in the same time slot. Those who want to take a risk, Wickett says, should be warned he's only had the course assignment since the Thursday before Christmas break: but he's willing to put in the effort if they are.

As Wickett begins cajoling this particular inquisitor, the 20-odd students are packing up to leave. The young historian finds himself wondering how many of them will actually come back.

THURSDAY, DEC. 18, ONE DAY BEFORE CHRISTMAS BREAK.

It's three weeks previous. Murray Wickett is at the departmental Christmas party, meeting and greeting, when Professor Craig Brown, chair of history, draws the tall somewhat ruddy-complexioned 32-year-old aside. "You've got to come to my office. How comfortable do you feel teaching another course?"

Later, in a meeting with Brown and Professor Laurel MacDowell, the associate dean of humanities, Wickett hears the situation. A professor's unexpected absence has left something of a hole in history's list of course

offerings for the spring. Quite a few students have already signed up: Brown suggests that Wickett, his only stipend lecturer in American history, teach the courses instead: but Wickett's not wholly comfortable with that idea. He suggests that for the largest hole, a course offered at both St. George and Erindale campuses, he turn a seminar course on race relations he's taught once before into a lecture series. "Because it's in my area of expertise, I don't waste any time," Wickett says.

Even though he thinks reading for his PhD comprehensives a few years back gave him enough background to teach the other professor's courses, Wickett is already teaching race relations at Erindale on a pre-existing contract. He argues it would take longer for him to bone up on a new topic than to teach an alternative course in something he knows backwards and forwards.

That works for Brown. Because it was taught before as a seminar, the history chair should have no problem getting fast-track acceptance by university governance for the new course. But Wickett's idea creates all sorts of new challenges. Letters will have to be sent to all those enrolled in the old courses so they're not taken by surprise when classes resume on Jan. 5; new textbooks will have to be ordered and new readings put on short-term loan at the libraries. And now it's Thursday, with one working day left before the university shuts down for the holidays.

FRIDAY, DEC. 19. SOMEWHERE BETWEEN ERINDALE AND ST. GEORGE CAMPUSES.

"There's a lot of running around," says Wickett.

*~ See HISTORY: Page 3 ~*

## Students Need Fees Guarantee: Report

BY BRUCE ROLSTON

THE UNIVERSITY SHOULD guarantee that no students be prevented from completing their program due to financial need, the university's tuition and student aid task force has recommended.

The task force also recommends that all U of T students should know on entry what the maximum level of fees they will be charged over their course of study will be.

"This is an ambitious guarantee for any university to make. But it is an integral part of an equitable set of tuition and student aid policies," says the report made public Monday.

Both recommendations along with 10 others are in the report, commissioned by Provost Adel Sedra to establish a framework for U of T policy in the areas of tuition and student financial support. The 17-member task force, with representatives from students, faculty and administration, was established last fall.

In addition to collecting the large amount of data available on the effects of tuition increases and student aid levels on students, the task force also commissioned some of its own research, including a survey of incoming students by economic background.

The task force found, after evaluation of entering students by

the mean incomes of their postal code catchment areas, that students are being drawn from roughly the same economic backgrounds now as they were in 1991. Deputy Provost Carolyn Tuohy, who co-chaired the task force with Vice-Provost Derek McCammond, said the finding is reassuring. "There doesn't seem to be any evidence we are losing lower-income students in this period."

That conclusion, however, does not address what effect reductions in governmental student aid, combined with tuition increases, are having on U of T's students. The task force found the average debt load of the nearly 50 per cent of students who take provincial student assistance is currently around \$15,000 at the point of graduation. There was insufficient data, however, to monitor whether that number has changed significantly.

The work of the task force gained new significance in December when the provincial government deregulated tuition for graduate and "professional" programs (without defining professional, however). Its deliberations are widely seen as opening the debate over how the university will set most of its own tuition fees.

The task force provides a list of factors that need to be taken into

*~ See STUDENTS: Page 3 ~*

## Goodbye Chile, Hello Argentina!

*Telescope hikes through Andes to new home*

BY STEVEN DE SOUSA

IT APPEARS THE U OF T SOUTHERN Observatory in Chile was born under a lucky star after all.

According a new agreement reached between U of T and the Argentine national observatory, it will be torn down, moved 1,000 kilometres across the Andes mountains and reopened in Argentina later this year.

"We've got a new opportunity and a new challenge here," said Professor Robert Garrison of astronomy who played a key role in establishing the southern observatory in 1972. "We were lucky to have 27 years of good observing at the best site in the world."

After an illustrious and productive 27-year run the observatory lost 60 per cent of its funding from the Natural Sciences and

Engineering Research Council. Attempts to secure funding from the private sector failed and the observatory was forced to shut down last July.

The new agreement will transfer ownership of the Helen Sawyer Hogg Telescope to the Complejo Astronomico El Leoncito at no cost. In fact CASLEO will cover all costs involved in moving, operating and maintaining the telescope, while reserving 25 per cent of the viewing time at the new location for U of T. And the telescope, named after the U of T professor and one of Canada's most famous astronomers, will retain its name.

"The best solution would have been to find some money and keep it going but this is clearly the second-best solution," Garrison said.

*~ See GOODBYE: Page 4 ~*

## IN BRIEF



### Donation ethics guidelines in the works

U OF T IS DEVELOPING PROVOSTIAL GUIDELINES ON DONATIONS to the university and expects to have a preliminary draft within the next few weeks, according to Provost Adel Sedra. He says the guidelines will emphasize such fundamental principles as academic freedom and autonomy that are already central to U of T's mission. "These principles are implicit in all we do," Sedra said, "but their explicit application to our fundraising efforts provides further assurance that the mission of the university and the role of the private donor continue to be carefully considered." Principals and deans as well as the chairs of Academic Board and Planning and Budget Committee are expected to provide input on the guidelines.

### Full speed ahead for GRADitude 9T8

U OF T GRADUATING STUDENTS ARE GEARING UP FOR GRADITUDE, the annual graduating class gift campaign. During this year's campaign, which runs from Feb. 23 to March 20, graduating students from 24 faculties, colleges and federated universities will raise funds to support such projects as bursaries, computer equipment and library renovations. The campaign began early for some faculties. Pharmacy achieved 98 per cent participation among its graduating class, raising more than \$16,000 and in the campaign's first-ever solicitation of November graduates, occupational therapy raised more than \$2,800. The Faculty of Social Work also began its GRADitude campaign in November by hosting a "Cosmic" glow in the dark bowl-a-thon. This off-beat event attracted more than 90 students, faculty and staff and raised \$1,500. The goal for this, the 15th annual campaign, is \$200,000.

### Arthritis centre established

U OF T, TOGETHER WITH THE ARTHRITIS SOCIETY OF ONTARIO, Toronto Hospital and the Conn Smythe Foundation, has established the University of Toronto Arthritis Centre of Excellence at Toronto Hospital. Each partner donated \$1.2 million to create the new state-of-the-art research facility in an effort to accelerate the search for a cure for arthritis through the collaboration of experts from the fields of rheumatology, orthopedic surgery and immunology. About 4 million Canadians are estimated to have some form of arthritis, a number anticipated to increase by nearly 50 per cent in the next few years as baby boomers approach their 50s.

## AWARDS & HONOURS



### Faculty of Applied Science & Engineering

PAUL DANDENO, AN ADJUNCT PROFESSOR IN ELECTRICAL and computer engineering, has been named the 1998 recipient of the Institute of Electrical & Electronics Engineers Nikola Tesla Award in recognition of his contributions to modelling and application of synchronous machines, power system controls and stability analysis. The award will be presented Feb. 3 at the 1998 IEEE Power Engineering Society winter meeting in Tampa, Florida.

### Faculty of Arts & Science

PROFESSOR EMERITUS JAMES GUILLET OF CHEMISTRY is the recipient of the 1998 Montreal Medal of the Chemical Society of Canada, presented annually to a resident of Canada who has made an outstanding contribution to the profession of chemistry or chemical engineering in Canada. Guillet has started four Canadian high-tech companies based on inventions and technology originating from his work at U of T and is heavily involved in devising novel strategies to collaborate with students and senior scientists internationally and across Canada.

PROFESSOR BORIS KHESIN OF MATHEMATICS HAS won the 1997 Andre-Aisenstadt Prize awarded by the Centre de Recherches Mathématiques. The award recognizes and rewards talented young Canadian mathematicians for their research achievement in pure and applied mathematics.

PROFESSOR ANDREW MACMILLAN OF CHEMISTRY has received a \$35,000 Research Innovation Award from Research Corporation for his work on caged RNA molecules as probes of RNA structure and function. Research Corporation is a foundation for the advancement of science and the awards "encourage research that transcends the ordinary and offers promise for significant discovery by beginning faculty in PhD-granting departments of chemistry, physics and astronomy."

### Faculty of Medicine

PROFESSOR TONY PAWSON OF MEDICAL GENETICS and microbiology is the recipient of the 1998 Henry Friesen Award of the Canadian Society for Clinical Investigation and the Royal College of Physicians and Surgeons of Canada. The award recognizes a distinguished Canadian scientist who has demonstrated leadership in developing biomedical research at local, national and international levels; it will be presented in September during the 1998 CSCI/RCPSC meeting in Toronto.

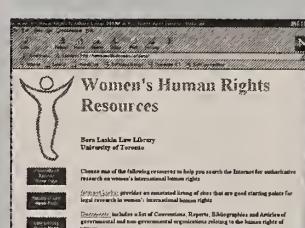
PROFESSOR MARY VEARNECOMBE OF LABORATORY medicine and pathobiology was elected president of the Canadian Association of Medical Microbiologists for a two-year term effective October 1997. The association represents the interests of medical microbiologists to other national societies and institutes such as the Royal College of Physicians and Surgeons of Canada, Health Canada, the Canadian Medical Association and the Canadian Council on Health Services Accreditation.

### OISE/UT

PROFESSOR EMERITUS GEORGE BANCROFT OF OISE/UT, Lillian McGregor, elder-in-residence at First Nations House, and Professor John Percy of astronomy have been chosen as recipients of 1997 Distinguished Educator Awards of the Ontario Institute for Studies in Education of the University of Toronto. Bancroft is being honoured for his significant contributions to education across Canada as a secondary school teacher, university academic, political administrator and adviser. McGregor, elder-in-residence since 1994, is widely respected for her dedication to teaching aboriginal youth about their traditions, culture, language and spirituality and assisting them to adjust to the multiple demands of urban life. Percy is being recognized for his substantial impact on the formal and informal education of students, teachers and general publics both in Canada and abroad. This year six individuals who have made a significant contribution to education have been chosen to receive awards, to be presented at a ceremony Feb. 26 at OISE/UT.

## ON THE INTERNET

### FEATURED SITE



#### Resources on Women's Human Rights

THIS INFORMATIVE WEB SITE is hosted by the Bora Laskin Law Library in conjunction with various other universities. It is a three-part tool to help researchers, students, teachers and human rights advocates search the Net for authoritative research on women's international human rights. There are annotated listings of related sites, full text documents and a select bibliography of international women's human rights print resources. The multitude of topics include general human rights issues; education; female genital mutilation, marriage and family, violence against women, reproductive freedom and family planning; and labour and employment rights, slavery, trafficking and prostitution. The site is maintained and updated regularly as part of the DIANA international human rights database.

<http://www.law-lib.utoronto.ca/diana>

### SITES OF INTEREST

#### U OF T HOME PAGE

[www.utoronto.ca](http://www.utoronto.ca)

#### THE CAMPAIGN FOR U OF T

[www.oftcampaign.com](http://www.oftcampaign.com)

#### RESEARCH UPDATES (NOTICES)

[gopher://ut1.library.utoronto.ca:70/11gopher\\_root70:\[\\_research.\\_research\\_updates\]](gopher://ut1.library.utoronto.ca:70/11gopher_root70:[_research._research_updates])

#### PHD ORALS

[www.sgs.utoronto.ca/phd\\_orals.htm](http://www.sgs.utoronto.ca/phd_orals.htm)

#### U OF T JOB OPPORTUNITIES

[www.utoronto.ca:80/jobopps](http://www.utoronto.ca:80/jobopps)

If you want your site featured in this space, please contact Audrey Fong, community relations officer, at: [audrey.fong@utoronto.ca](mailto:audrey.fong@utoronto.ca)



### Showcase 98

THE PROVOST'S OFFICE AND THE CENTRE FOR ACADEMIC TECHNOLOGY are hosting a showcase of multimedia and digital courseware developed by faculty, staff and students. Visitors will have the opportunity to experience first hand the latest examples of interactive programs. The event will be held at the Centre for Academic Technology (fourth floor, Robarts Library) on Feb. 12 between 10 a.m. and 4 p.m.

<http://snow.utoronto.ca/provost/>

### Getting active on campus

TRYING TO STICK TO YOUR NEW YEAR'S RESOLUTION AND KICK the couch potato habit? The Athletic Centre offers a listing of facilities, recreational and instructional classes for all levels, ages, shapes and sizes. There are Varsity Blues sports updates and Hall of Fame features. And just in case you can't recall the words to The Blue and White, the lyrics are available.

<http://www.utoronto.ca/dar>

## HISTORY ON THE FLY

*Continued from Page 1*

He's literally on the fly, coordinating as much as possible between the two campuses in the one day he has left. Wickett has already been lucky: by calling ahead to the campus bookstore he found that they had the key readings (Ronald Takaki, Lawrence Goodheart) he'd picked out the night before in stock. That means he'll probably have the textbooks by the second week of classes; if he'd heard differently, he would have had to change his readings. "I ended up getting my first choice books," he exults.

The other challenge was the library short-term loan system. Most professors want any standard text they ask students to read also available on short-term loan to help students who can't afford or are unable to get the text right away. He's been lucky there, too. "I talked to the people, I asked them, 'Can we get it?' Sure enough, the books I requested, we had copies."

The rest, fortunately, is mostly organizing his own life around a vastly increased teaching load. "Ninety per cent of your difficulties are time management. Fortunately all the other courses, I've already taught. I have the lectures down. But you have to mark out specific dates and time periods for yourself. You have to realize you have to stagger the marking of assignments, for instance: some before reading week and some after. I've made sure all the assignments are due on a different week."

Wickett has had to make some compromises. "In terms of assignments there's probably more emphasis on tests and exams and less on essays and book reports. Where I might have four assignments, I'll only have three."

Still, he has no doubts about yesterday's decision. "It took me about five seconds to decide. I knew it would mean a lot of extra work but it would be fun teaching."

MONDAY, JAN. 12, 10 A.M.

Wickett is waiting to see how many of his students come back for a second lecture. The department's done everything it can to advertise the course, posting announcements around the building; other lecturers read out the course description in their classes. Wickett needs a minimum of three students to continue with the course although he'd like to have a lot more: fortunately he already knows that the Erindale course will be a success, it having filled up with a lot of students who had been in a previous course and wanted to hear more of his particular perspective on race relations.

A Toronto native, Wickett has spent his whole academic career at U of T. His doctorate was on race relations in Oklahoma. He was turned on to the whole field of race relations by history professor Jack Wayne: he found he was fascinated with the terrible misperceptions that pervade people's understanding of the topic. He sees American race relations less as a linear development, with things slowly getting better, and more as "a cycle of fluxes," with institutions like slavery and the oppression of natives emerging out of earlier colonial periods often predicated by more positive periods of race relations.

The great thing for students, he believes, is that even though taking a new course with an unknown, untenured instructor might be seen as a bit of a gamble, this is a course that has never been taught before in this format, "and may never be taught again," he laughs. The great thing for him is the obvious increased income in addition to more experience to put on the c.v. for that next application for a full-time teaching position. "This is an obvious good situation for me. I'd also like to think it's a good situation for the department."

As the minutes tick past the hour, the lecture room in Sidney Smith Hall slowly fills up. Five students... 10... finally 30. Ten more than last week, even: Wickett can't help smiling, before welcoming them to the first ever two-hour lecture in the new HIS 305.

"Origins of racial stereotypes..." he begins.

## Province Will Match Funds

THE UNIVERSITY HAS NO DOUBT that the more than \$80 million in private contributions to student aid will be fully matched by the Ontario Student Opportunity Trust Fund, says Provost Adel Sedra.

Sedra was speaking to Academic Board Jan. 29, reassuring board members that despite recent campus rumours to the contrary, the provincial government has no significant problems with the university's fundraising efforts for student aid. "To the best of my knowledge the government has no concerns" about the funds raised for the OSOTF match, Sedra said.

Sedra specifically denied that misunderstandings over the OSOTF guidelines would lead to the province withholding some of its \$80 million contribution. The province had originally determined that OSOTF contributions would primarily satisfy student need: the

suggestion has been made publicly that scholarships that strongly emphasize student merit as well might not qualify, he said.

"I want to assure the members of this board and the community that we are complying with both the letter of the province's guidelines and their spirit," Sedra said.

Since the 1996-97 campaign, donor agreements have been extensively audited and in a few cases revised to ensure there was absolutely no conflict with the province's guidelines, Sedra said.

Over 33,000 faculty, staff, students, alumni and other friends of the university offered funds last year to be matched by the university and the province to create endowments for student aid. The contributions will add over \$12 million a year to the amount the university distributes for student aid, in perpetuity.

## SPECIAL THANKS



ROB ALLEN

*City of Toronto equal opportunity manager Ceta Ramkhalawansingh (left) congratulates City of Toronto women's studies scholar Stefanie Samuels, one of several meetings between donors and scholarship recipients at the fifth annual reception Jan. 21 at Hart House organized by the Faculty of Arts and Science. Over 350 scholarship recipients and their parents were invited to meet those who funded their scholarships.*

## Students Need Fees Guarantee

*Continued from Page 1* account when determining future fee hikes: factors such as the rate of return on a student's investment, comparisons with fees at other universities and ensuring program quality.

On tuition policy the report calls for the establishment of a benchmark for the maximum likely tuition a student will have to pay over the course of his or her studies: by committing the university to a maximum level of increase "students will know what to expect," Tuohy said.

On student aid the task force recommends that the university guarantee that no student who is offered admission will be unable to enter or complete a program due to financial need. The task force recommends that while the whole range of federal, provincial, private and university student aid resources needs to be taken into account in

each case, "we should be able to guarantee that no student come here and not complete the program due to financial need," Tuohy said.

Accordingly the university must continue placing greater emphasis on needs-based student financial aid, such as bursaries, and not focus exclusively on merit, the task force recommends. While there will always be some merit-based awards, Tuohy said, part of offering such a strong guarantee to students is changing the emphasis of its own student aid programs to match.

The university has the advantage of already possessing the University of Toronto advance planning for students program, which "tops up" provincial aid for students with university resources. UTAPS would continue to be the mechanism for providing sufficient additional aid to students on top of what the government provides, the task force rec-

ommends: had this recommendation been in place this academic year, the task force estimates it would have cost the university an additional \$1.5 million in student aid.

The task force also recommends the university must continue to push for greater levels of public funding for postsecondary education. Tuohy said the report will be a historic turn in the development of fees policy -- "This is a bold report, a well-considered report."

The report will now begin its journey from recommendations into policy at February meetings of Business Board and the academic policy and programs committee of Academic Board. Copies of the report can be made available by contacting the provost's office.

Originally scheduled to report Jan. 15, the task force was given a two-week extension by Sedra due to the large number of community submissions it received.

## Two Appointed to Order of Canada

TWO FACULTY MEMBERS HAVE been appointed to the Order of Canada, one of Canada's highest distinctions.

Professor James Fleck of the Rotman School of Management and Professor Emerita Eva Kushner of French and a senior fellow of the Centre for Comparative Literature have been named officers, the order's second highest rank. The appointments were announced by Governor General Roméo LeBlanc Jan. 22.

Fleck, chair of Fleck Management Services Ltd., an investment advisory company, is cited as a "scholar, entrepreneur, public policy advisor, administrator, consultant and professor" whose "personal commitment to supporting

medical research, particularly cancer, has had a remarkable influence on Toronto's care programs." A generous benefactor to the arts and other cultural sectors of Ontario, Fleck is founding president of the Power Plant gallery at Harbourfront in Toronto, and president of both Harbourfront Foundation and the Art Gallery of Ontario. Fleck was also among the donors of a \$1 million gift to the University of Toronto, which when matched by the university, created a \$2 million endowed chair, the Geoffrey R. Conway Chair in Business Ethics at the Rotman School of Management.

As president of Victoria University from 1987 to 1994, Kushner was the first women to

serve as a university president in Ontario. She has taught and published extensively in four areas: contemporary literature of France; Quebec poetry; Renaissance studies; and comparative literature and was one of the first to provide a critical analysis and widespread recognition of Quebec poets. Kushner is currently president of the International Federation for Modern Languages and Literatures.

Kushner is "a leading figure in the Canadian academic world whose scholarship in comparative literature is internationally respected," her citation notes, and her "mentorship of students has helped to broaden their opportunities in higher education through collaborative research, study and dialogue."



# Happenings

7 Hart House Circle • Telephone: 978-2452 • www.utoronto.ca/harthouse

## SPECIAL EVENTS Call 978-2452

Tour of Soldier's Tower Memorial Room - Feb. 2-6 from 1-3pm.  
**Sunday Serenades** - From the Classics to the Tango with flutist, **Susan Hoeppner** and guitarist, **Rachel Gaulk**, Feb. 8 at 3pm in the Great Hall.  
**Nominations open for Graduate Committee and Recreational Athletics senior member seats**, Mon. Feb. 9. Call 978-5363 for info.

## ART Call 978-8398

The **Justino M. Birnboim Gallery** - West Gallery: "Botanico Barocca," Jane Buyers. Meet the artist Thur. Feb. 5 at 5pm in the Gallery. East Gallery: Dolla Husband (1899-1943). Feb. 5-Mar. 5.

**Arbor Room** - Neil McKeown, "Places Like Stone City," Feb. 9 to Mar. 14.

## MUSIC Call 978-2452 - All concerts are FREE!

**Midday Mosolcs** - The Jung Sisters on piano, violin and cello, Feb. 5. Pianist, Ann Edwards, Thur. Feb. 12. Both concerts start at noon in the Music Room.  
**Jazz at Oscar's** - Fridays at 8:30pm in the Arbor Room. Feb. 6, The Trish Colter Sextet. Licensed. No cover.

## CLUBS & COMMITTEES - Call 978-2452

**Chamber Strings** perform a concert Sun. Feb. 8 at 7:30pm in the Great Hall. Call 978-5363 for info.

**Debates Committee** presents a formal debate in cooperation with the Churchill Society: BIRT "The Monarchy is indispensable to Canadian Parliamentary Democracy." Featuring former Lieutenant Governor and U of T Chancellor, **Hot Jackman**, Wed. Feb. 4 at 7:30pm in the Debates Room. Call 978-0537 for info.

**Hart House Farm** - Book the farm for a day or weekend. Call 978-2447 for info.

**Film Board** - Screening Event, Tue. Feb. 10 at 7pm in the Music Room. Call 978-2453 for info.

**Interfaith Dialogue Committee** - Wednesday "Wind-Down" in the Hart House Chapel. Communion Service on alternate weeks. Service begins at 5pm. Call 978-2448 for info.

**Library Committee** hosts a tribute to **Phyllis Gotlieb** on Tue. Feb. 3 at 7:30pm. Ray Robertson reads from his latest novel on Tue. Feb. 10 at 7:30pm. Both events take place in the Hart House Library. Call 978-5362 for info.

## ATHLETICS - CALL 978-2447

**Indoor Triathlon** - Our 5th annual indoor triathlon will be held Sat. Feb. 7. Sign up individually or join with two friends and do the event as a relay team. Volunteers are also needed to help at the event. Call 978-2447 for more information. The pool, track and upper gym will be closed to members from 7am to 2pm during the Triathlon.

**Drop-In Fitness Classes** - The new schedule is available throughout Hart House. Choose from over 35 classes each week!

**Strength/Fitness Consultation** - Have a qualified trainer get you started on a personal programme. Fee \$17.

**Runners** - Join our running group Tuesdays and Thursdays at 12:10pm by the Athletics Reception Desk. All levels welcome!

**HART HOUSE**

UNIVERSITY OF TORONTO

# Goodbye Chile, Hello Argentina!

*Continued from Page 1 ~*

"Given the situation, we couldn't have done any better."

Professor Heather Munroe-Blum, vice-president (research and international relations), agrees the new agreement will be beneficial to all parties. "This unique solution is a fine example of international cooperation," she said. "This partnership will benefit not only the University of Toronto but international research in astronomy."

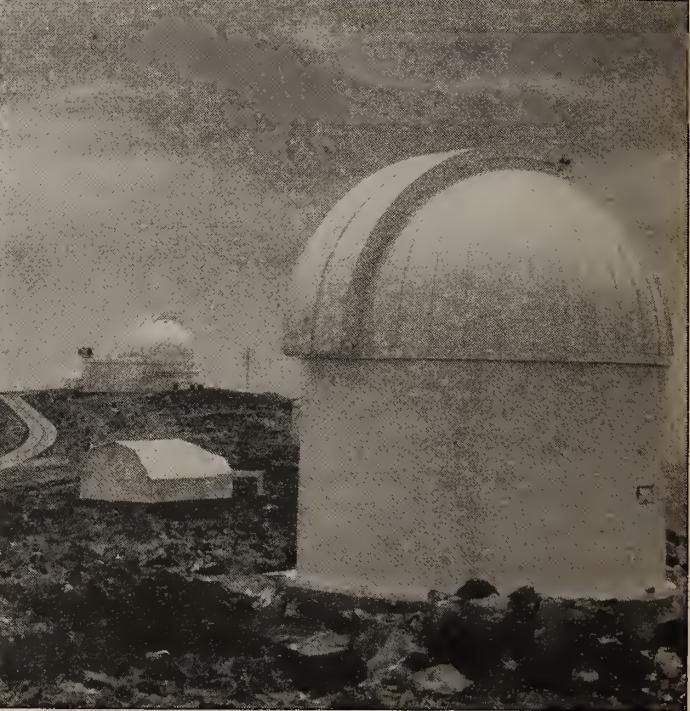
The deal came about when Garrison met an old friend, Argentinean astronomer Hugo Levato, at an international astronomical meeting in Japan. Within a month of that meeting, a deal was hammered out. "I didn't know they needed a telescope," Garrison said. "But their larger telescope is very oversubscribed. So the idea is to have the smaller one take some of the pressure off the bigger one."

The Argentinean telescope has a two-metre diameter while the Hogg telescope is only 60 centimetres wide. But the role for "smaller" telescopes is significant. In addition to taking some of the pressure off the bigger telescopes they also do a lot of survey work, feeding the big telescopes with data and making a lot of their own discoveries in the process. Indeed one of the more significant discoveries in recent years by a small telescope was made at the U of T Southern Observatory -- in February 1987 U of T's Ian Shelton discovered Supernova 1987A.

That discovery was made possible in part by the first-class mirror in the telescope but also by the clear Chilean sky which many astronomers believe to be the best in the world for star watching. Astronomers call the flow of air along the Chilean coastline "laminar" because it is very crisp and without turbulence that can distort images. The Argentinean site will have the same number of clear nights, roughly 85 per cent, but the turbulence on the other side of the Andes will be a disadvantage.

"Clearing things out was kind of sad because the sky put on a spectacular display for us," Garrison said. "We were able to see the crescent moon growing each night and passing the planets one by one. It was sort of a parade with a salute, saluting the achievements of the telescope."

Dismantling of the Hogg telescope began last month and is expected to be completed in March. Reconstruction will begin in earnest and should last about six months.



University of Toronto's Southern Observatory

# RRSPs

## For Your Future and Theirs

**METRO**  
CREDIT UNION

252-5621



# Phantom Pain Not Imagined

BY CHRISTINA MARSHALL

NEW RESEARCH AT THE University of Toronto and Toronto Hospital shows there is a biological basis for phantom sensations, putting to rest suggestions that these feelings are imagined.

The investigators found neurons in the brain that once represented sensation in the lost limb were still functional but were now driven by the stimulation of other body parts, usually the part of the body closest to the amputated limb. The researchers also found that in patients experiencing phantom pain, the sensation could be recreated by stimulation within the brain. Phantom sensations could not be elicited, however, in amputees without a history of phantom sensations.

"Amputation can change the representation of the body surface in the brain but until now it has been unclear how these changes relate to phantom sensation," said Professor Jonathan Dostrovsky of physiology, one of the investigators.

The study looked at the role of the thalamus, an area of the brain

that functions as a relay centre in the brain, receiving messages from the surface of the body and sending these impulses to higher centres in the brain. While treating people experiencing chronic pain and movement disorders through the electrical stimulation of the thalamus, the team of scientists and clinicians hypothesized that in amputees who experience phantom sensations, the area in the thalamus originally representing the missing limb remains functional and stimulating this area of the thalamus would result in phantom sensations.

The investigation involved six amputees in the pain/movement management program who all had chronic pain following amputation; four had experienced phantom pain and two experienced pain in their stump but had not experienced phantom sensations. As part of their treatment for chronic pain, the patients underwent surgery to map the sensory areas in the brain. During the mapping process the investigators were able to stimulate the patients' thalamus and the still-conscious patients were able to report what they felt.

"Many amputees feel their missing limb and frequently these sensations are painful," said Professor Andres Lozano of surgery who was also involved in the study. "Phantom pain can severely compromise the quality of life of patients who have already had to adjust to a change in body image and quite often their activities of daily living."

When phantom pain can't be controlled with conventional therapies, some sufferers try continuous electrical stimulation through electrodes surgically implanted into the thalamus. This technique blocks spontaneous neuronal activity in the thalamus that is thought to cause phantom sensations. Whether such bursting activity by neurons is actually responsible for spontaneous phantom pain will be the focus of the team's future efforts.

Professor Karen Davis, of surgery, along with Dostrovsky and postdoctoral physiology fellow Lei Luo, were the principal scientists involved in the study. The other members of the team were Professor Ron Tasker, also of surgery, and doctoral student Zelma Kiss.

Following publication of the study's results in the Jan. 22 issue of *Nature*, the researchers have received calls from amputees expressing relief knowing that what they are feeling is normal, Dostrovsky said.

partnership with the University of Toronto is a tremendous opportunity not only for us at McGill and not only for U of T but also for our clients," said Professor Alistair Duff, director of the McGill Executive Institute, at a reception to launch the initiative. "I believe that they are the ones that are going to benefit most from this alliance."

About a year ago the joint program started to take shape as McGill and U of T found they were constantly bumping into one another while marketing their executive education programs. There was not a lot of overlap in the kinds of courses each school was offering and the idea of a strategic alliance that drew on the strengths of each institution was born. While some European business schools have similar collaborations with other institutions, this partnership is thought to be rather innovative in North America.

"Both McGill and U of T are research intensive schools and our academics contribute to original research in their fields," said Professor Dan Ondrack, interim director of the Rotman management school executive programs. For example, Professors John Hull and Alan White who are teaching the courses in derivatives are considered world experts in their field, he explained. "Our program offers clients a level of quality that is pretty unique."

Though the program was just recently launched, there has already been quite a bit of interest. For now the alliance is beginning with 11 courses for which one or the other of the schools already has an established record of success but there are hopes that, as the success of the program grows, so will the course offerings.

"We believe that this particular

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## U of T, McGill Merge Executive Ed

BY CHERYL SULLIVAN

THE MANAGEMENT SCHOOLS of the University of Toronto and McGill University have joined forces to establish a new executive education alliance. Drawing on the resources and strengths of each school, the executive alliance offers business clients the opportunity to benefit from the combined expertise of two top executive education programs.

"U of T and McGill are Canada's strongest brand names in education and certainly the best known in international markets," said Professor Paul Halpern, acting dean of the Rotman School of Management. "Creating the alliance allows both schools to expand their executive programs beyond their traditional markets because of the advantage of the two great names working together. More important, our executive clients can now be doubly certain that they will receive the highest quality management education."

With the first courses set to begin in Toronto in March, the program offers managers, executives and business leaders three- to five-day courses such as Negotiating for Success, Corporate Finance and Capital Markets and Winning at New Products. Courses are currently slated for Toronto, Montreal and Ottawa, and in May program will begin in Hong Kong. In addition to the designed sessions the alliance offers clients the option of personalized services. Courses can either be offered as is in-house to a number of business people in one organization or they can be tailored to the needs of an individual company.

"We believe that this particular

## UNIVERSITY OF SIENA UNIVERSITY OF TORONTO EXCHANGE PROFESSORSHIP 1998 - 99

Applications are invited from tenure-stream members of the academic staff of the University of Toronto for the 1998-99 University of Siena-University of Toronto Exchange Professorship.

The award is tenable for one academic term (four months) at the University of Siena, Italy with a stipend of 3,000,000 Italian Lire net per month (approximately CAD\$3,000.00). Accommodation and return airfare are provided by the University of Siena.

While the academic discipline is not restricted, some fluency in Italian is desirable. Teaching and research responsibilities will be determined in consultation with the University of Siena.

Applicants should send a CV and an outline, not exceeding 1,000 words, of their proposed program of research to:

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A selection committee chaired by the Provost's office will review the applications.

Deadline for application is Friday, March 6, 1998.



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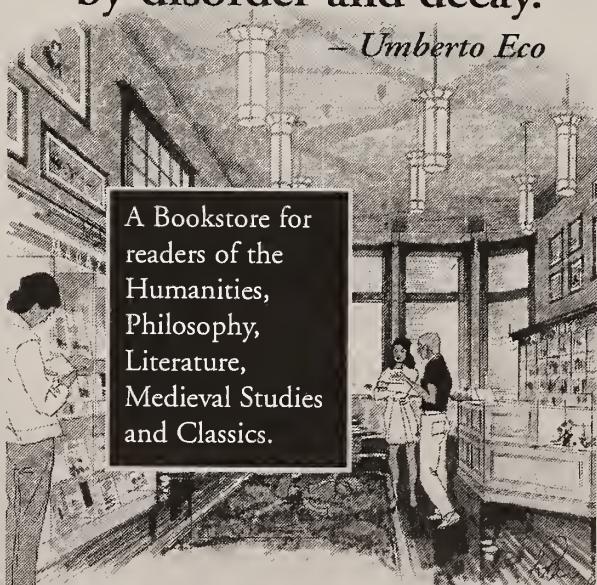
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## GOALMOUTH ACTION



MARK LYALL

The Varsity Blues' Greg Dellio tries the wraparound on tenacious Guelph goaltender Mark Gowan at Varsity Arena Jan. 10. The Blues played to a 4-4 tie with the defending national champion Gryphons.

## Migrating Planets Proposed

BY STEVEN DE SOUSA

**S**CIENTISTS AT THE CANADIAN Institute for Theoretical Astrophysics are challenging the conventional wisdom on how some planets are formed.

The team of researchers, led by Professor Norman Murray of astronomy and physics, recently published their findings in the journal *Science* where they outline the effect of migration mechanisms on solar bodies.

"The conventional wisdom on how planets are formed was based solely on observations of our own solar system," Murray said. "So it's not surprising that it was incomplete."

Planets were believed to be formed through a complex process known as accretion — cosmic rocks or ice colliding and sticking to each other following a condensation of gases surrounding a star. However, recent discoveries of new planets

have left astronomers puzzled because they were so close to the suns they were orbiting, a region far too hot to allow the condensation of gases needed to create them.

Another popular theory of large (Jupiter-mass) planet formation is that of a hydrodynamic collapse where a large accumulation of gas compresses into a ball. If the planet is similar to Jupiter in size, atmospheric gas cannot escape from the surface even at 1300 degrees because the planet's gravity is so strong. However, early in the collapse the planet was necessarily larger and its gravity smaller, allowing gas to escape from the planet and preventing formation, thus ruling out the hydrodynamic collapse theory as a possible explanation for these new planets.

"So obviously these planets were made somewhere else and had to migrate to their current location."

Murray showed that interactions

with millions of renegade asteroids remove energy from the planet, causing it to move closer to the star it orbits, thus creating a migration mechanism.

Murray believes a similar process happened in our solar system, causing Jupiter to migrate to its current orbit.



Norman Murray

## Oceans Rise as Earth Wobbles

**P**ROFESSOR JERRY MITROVICA of physics and doctoral student Jon Mound have a new theory on why sea levels rise and fall over millions of years — they say it's because the world wobbles.

In an article published in the Jan. 23 issue of the journal *Science*, the physicists use numerical simulations to show how long-term changes in the orientation of the Earth's rotation axis, or "wobbling" of the planet, can produce sea-level variations which exceed 100 metres.

"It's quite possible that all of the records of long-term sea-level change that people have been interpreting for decades will have to be entirely reinterpreted," Mitrovica said. "The amplitude of sea-level trends associated with the wobbling

are large enough that they can contribute significantly to the observed sea-level variations."

One particularly dramatic example of a large-scale sea-level change is the rise and fall of the oceans of 100 to 300 metres which has occurred over the last 140 million years. Geophysicists have long believed this and other similar variations were linked to changes in the elevation of the ocean floor caused by changes in the rate of sea-floor spreading.

Mitrovica said the effect of a wobbly planet on long-term sea-level variations had never been considered. "We can essentially match the amplitude and timing of the sea-level change over the last 140 million years just by using what we know about the

history of the planet's rotation. It doesn't necessarily have anything to do with changes in the elevation of the ocean bottom due to changes in the rate of ocean spreading.

According to Mound the effect of the wobbling, also known as polar wander, means rises and declines in sea-level are not constant around the globe. "It had been assumed that you could apply sea-level curves globally whereas our numerical predictions show they're in fact regional," he said. "At the same time sea-levels rose to flood parts of North America, they may have fallen in South America."

"Jon's calculations tell us that the classic interpretation of those sea-level variations will have to be revised," Mitrovica said.

## LETTERS



### WARM THANKS

I wish to thank everyone at U of T who generously donated desperately needed supplies to the people of eastern Ontario and Quebec after the devastating ice storm.

The response to the disaster was immediate and overwhelming, with 35 drop-off points being set up on the St. George campus within hours of the call for help. Reports over the news from the shelters stressed the immediate need for all manner of baby supplies, toilet paper, paper towels and ready-to-eat food, so these were targeted in our appeal.

From the moment the call for donations went out on the Internet to environmental coordinators (Tuesday, Jan. 13 at 11 a.m.) to the time the recycling trucks picked up goods on Thursday afternoon, there were enough contributions to practically fill the two cube vans. When we arrived at the Daily Bread Food Bank, which had been forewarned that U of T would be bringing in donations late Thursday afternoon, they were quite amazed and somewhat unprepared for the sheer volume of our contribution.

I have heard some wonderful stories arising from this outpouring of generosity and concern for the ice storm victims. For example, one professor was purchasing jars of baby food at the supermarket and the cashier asked him about his baby; he replied that he was buying the food for the people in the shelters in Quebec and eastern Ontario. All the cashiers thought this was great and immediately chipped in their money, purchasing great quantities of baby food, which the professor somehow managed to haul to a drop-off box on campus. I can tell you that that box of baby-food jars weighed about 20 pounds!

Other people at U of T preferred to make cash contributions and I heard that one professor making a donation challenged colleagues to match or exceed it, raising over \$2,500 in one day. Students also generously contributed to the appeal, with the Innis College residence collecting a small mountain of all kinds of food and paper supplies.

I would like to thank especially the recycling team — Marcella, Bill, Inara and John — who worked overtime to collect and deliver the donations from the drop-off points. Well done.

*BARBARA SCHAEFER  
OFFICE OF WASTE MANAGEMENT*

### BUSH CEREMONY INAPPROPRIATE

The humiliation of the George Bush affair persists. One listens to his acceptance speech tapes (gratis from the University's development department) and marvels: is he

still competing for the 1990 Nobel Peace Prize?

For decades a tradition in the awarding of the prize has been discernible. It has been repeatedly awarded to representatives of erstwhile enemies who presumably cooperated to resolve a festering conflict. In 1973 it was awarded to Henry Kissinger of the U.S. and Le Duc Tho of Vietnam (the latter declining); in 1978 to Menachem Begin of Israel and Anwar Sadat of Egypt; in 1993 to F.W. de Klerk and Nelson Mandela of South Africa; in 1994 to Yitzhak Rabin, Shimon Peres of Israel and Yasser Arafat representing the Palestinians. Had the committee perceived such cooperation in 1990 it would undoubtedly have awarded the Nobel to Mikhail Gorbachev of the U.S.S.R. and George Bush of the U.S., whose constituencies had imperiled the planet for four decades. What shall we infer from the fact that the 1990 prize was awarded to Gorbachev alone? Could it be that the committee failed to perceive the symmetry that Bush seemed so eager to portray?

George Bush's acceptance speech for the degree of doctor of laws *honoris causa* is dominated by a triumphant tone. He implies that the Pershing missiles of the U.S. convinced Gorbachev that he lost the arms race. He does not see the Cold War "thawed;" he sees its end as a crushing victory of the United States over what his predecessor called "the evil empire." He gloats over the collapse of the Soviet Union, celebrates the furling of the Hammer and Sickle and raising of the tsarist Tricolour. His speech suggests that he sees himself as having fulfilled Barry Goldwater's dream, expressed in his book *Why Not Victory?*

Bush gives the impression that the symmetry of his and Gorbachev's peace efforts was recognized by the University of Toronto. In accepting the honorary degree he says Gorbachev was "similarly honoured" when he visited the university a few years previously. Obviously he has either been misinformed or is misrepresenting the facts. The university did not bestow an honorary degree on Mikhail Gorbachev.

Professor Jean Edward Smith's citation of candidate Bush includes the following: "... Mr. Bush's finest hour was his singular decision to withstand aggression in the Persian Gulf." This evaluation reveals a conception of peacemaking held by both Smith and Bush: identify the aggressor and crush him.

Smith tells us, "The danger of nuclear war with which the world lived for almost 50 years no longer threatens." President Bill Clinton agrees with Smith in saying, "for the first time since the dawn of the

nuclear age, there is not a single Russian missile pointed at American children." But according to Bruce Blair's statement to the National Security Committee of the U.S. House of Representatives last March, Smith and Clinton are wrong to feel comfortable. As Blair points out, "... Russian security policy continues to shift toward an exclusive emphasis on nuclear weapons ... on their first use in a crisis.... Russian control over its nuclear arsenal is tottering on the brink of collapse, raising the spectre of the accidental, illicit and inadvertent use."

This warning may sound like a hawkish reaction to the removal of Russia from its Cold War role of Designated Enemy Number One of the U.S. But Blair's recommendation, an implicit rejection of triumphalism, dispels the impression: "We need to make fundamental changes in U.S. policy ... we must cooperate to develop mutual confidence and strengthen mutual security...."

In sum, it was wrong of Smith to attribute a brighter outlook on peace to George Bush and it was wrong of Bush to lay claim to more than half of the laurels. Gorbachev renounced the Cold War posture of the Soviet Union; Bush has reasserted that of the United States.

Recall that following the collapse of totalitarianism in Germany and in the Soviet Union, there was a great deal of soul-searching in both countries: *Vergangenheitsüberwältigung* in Germany, *glasnost-perestroika* in the Soviet Union, in effect a renunciation of hegemonic ambitions and of the rule of force. We have not witnessed a similar process in the United States. On the contrary, triumphalism, self-righteousness and a threatening posture prevailed, backed by references to "the use of invincible force," as Smith put it in introducing Bush. Indeed, faith in "the use of invincible force" shone also through Bush's acceptance speech. Many of us who regard peacekeeping as the noblest form of public service, for which the honorary degree was supposedly conferred, felt humiliated by Smith's eulogy and by Bush's elaboration of it.

*ERIC FAWCETT, TERRELL GARDNER  
AND ANATOL RAPAPORT  
SCIENCE FOR PEACE*

### LETTERS DEADLINES

FEBRUARY 6 FOR FEBRUARY 16

FEBRUARY 20 FOR MARCH 2

Letters may be edited for brevity or clarity. Please send to Ailsa Ferguson, associate editor, 21 King's College Circle; fax: 978-7430; e-mail: ailsa.ferguson@utoronto.ca

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# EVENTS



## LECTURES

### Meeting Jesus in the Market Economy.

**WEDNESDAY, FEBRUARY 4**

John Dalla Costa, founder of the Centre for Ethical Orientation; fourth of seven on Meeting Jesus Again for the First Time. Elliott MacGuigan Hall, 67 St. Nicholas St. 7:15 to 9:15. Individual lectures \$9, students and seniors \$7. *Regis*

### The World Labour Report, 1997-98: Industrial Relations, Democracy and Social Stability.

**THURSDAY, FEBRUARY 5**

Jean-Michel Servais, International Labour Organization, Geneva. Bennett lecture hall, Flavelle House, 78 Queen's Park. 4 to 5:30 p.m. *CIS, Law and Industrial Relations*

### TeleCable Communications: Home Wired.

**THURSDAY, FEBRUARY 5**

Richard Starsberg, Canadian Cable Communications Association; Canada by Design visionary speaker series. 205 Claude T. Bissell Building, 140 St. George St. 4 to 6 p.m. Information: [bydesign@fis.utoronto.ca](mailto:bydesign@fis.utoronto.ca). *KMDI, McLuhan Program, FIS, Information Commons, Centre for Academic technologies and CITO*

### Religion and Immigration Reconsidered: The "Milieu Hypothesis" and the German Catholics in North America.

**FRIDAY, FEBRUARY 6**

Prof. Kathleen Neils Conzen, University of Chicago. Multicultural History Society of Ontario, 43 Queen's Park Cres. E. 2 to 4 p.m. *Ethnic, Immigration and Pluralism Studies*

### Beyond the Plate Tectonics Revolution: Towards a Unified Theory of Global Geophysics?

**SUNDAY, FEBRUARY 8**

Prof. Jerry Mitrovica, physics. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

### Hellenization, Romanization, Christianization: Mapping Cultural Aesthetics.

**MONDAY, FEBRUARY 9**

Prof. Michael White, University of Texas at Austin; first of four Teetzel lectures on Contours of City, Cult and Culture: Urban Development and Social Change in the Roman World. 140 University College. 4:30 p.m.

### Urban Planning and Population: Building the City.

**TUESDAY, FEBRUARY 10**

Prof. Michael White, University of Texas at Austin; second of four Teetzel lectures on Contours of City, Cult and Culture: Urban Development and Social Change in the Roman World. 140 University College. 4:30 p.m.

### Religion and the Urban Landscape: Removing the Past.

**WEDNESDAY, FEBRUARY 11**

Prof. Michael White, University of Texas at Austin; third of four Teetzel lectures on Contours of City, Cult and Culture: Urban Development and Social Change in the Roman World. 140 University College. 4:30 p.m.

### Strategy in Developing the Law: The U.S. Supreme Court and Civil Rights.

**WEDNESDAY, FEBRUARY 11**

Prof. Stephen Wasby, State University of New York at Albany; Bissell-Fulbright

professor, Centre for International Studies. Conference room, Centre for International Studies, 8th floor, 252 Bloor St. W. 4:30 to 6 p.m. *CIS*

### Jesus Today: Beyond Violence and Victimhood.

**WEDNESDAY, FEBRUARY 11**

Prof. Mary Jo Leddy, Regis College; fifth of seven on Meeting Jesus Again for the First Time. Elliott MacGuigan Hall, 67 St. Nicholas St. 7:15 to 9:15. Individual lectures \$9, students and seniors \$7. *Regis*

### Life in Small-Town Mesopotamia: Nuzi in the Late Bronze Age.

**WEDNESDAY, FEBRUARY 11**

Prof. M.P. Maidman, York University. 108 Koffler Institute for Pharmacy Management. 8 p.m. *Canadian Society for Mesopotamian Studies*

### Performing Testimony: Desire, Ambiguity and Obligation in a Theatre Project about Land-Mines.

**THURSDAY, FEBRUARY 12**

Julie Salverson, PhD candidate, OISE/UT. Room 8-214, 252 Bloor St. W. 3:30 to 5:30 p.m. *Testimony & Historical Memory Project, OISE/UT*

### Jews and Christians in the Roman World: Contouring Cult and Culture.

**THURSDAY, FEBRUARY 12**

Prof. Michael White, University of Texas at Austin; final Teetzel lecture on Contours of City, Cult and Culture: Urban Development and Social Change in the Roman World. 140 University College. 4:30 p.m.

### Turning Sows' Ears into Silk Organs.

**SUNDAY, FEBRUARY 15**

Prof. Michael Sefton, chemical engineering and applied chemistry. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

## COLLOQUIA

### Physicians and Musicians in Germany between the Wars.

**WEDNESDAY, FEBRUARY 4**

Prof. Michael Kater, York University; Hannah visiting professor. 323 Victoria College. 4 p.m. *IHPST*

### Wavepacket Sculpting with High Intensity Optical Radiation.

**THURSDAY, FEBRUARY 5**

Prof. Philip Bucksbaum, University of Michigan. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*

### Social Status and Its Consequence for Reproductive, Adrenocortical and Metabolic Function in Female Marmoset Monkeys.

**FRIDAY, FEBRUARY 6**

David Abbot, Wisconsin Regional Primate Center. 4043 Sidney Smith Hall. 4 p.m. *Psychology*

### Understanding the Onset of Smoking in Adolescents.

**TUESDAY, FEBRUARY 10**

Bill Corrigan, Addiction Research Foundation; Meet the Researchers presentation and discussion. Meeting Centre, Addiction Research Foundation, 33 Russell St. 4:30 p.m. *Research Services*

### The Synagogue at Ostia: An Illustrated Lecture.

**THURSDAY, FEBRUARY 12**

Prof. Michael White, University of Texas at Austin. Centre for the Study of Religion, 123 St. George St. 1:10 p.m. *Study of Religion*

### Leibniz on Human Freedom.

**THURSDAY, FEBRUARY 12**

Prof. Robert Sleigh, University of Massachusetts at Amherst. 179 University College 4 p.m. *Philosophy*

### Wax Tectonics.

**THURSDAY, FEBRUARY 12**

Prof. Eberhard Bodenschatz, Cornell University. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*



## SEMINARS

### Transcriptional Control of Cardiogenesis.

**WEDNESDAY, FEBRUARY 4**

Dr. Mona Nemer, Institut de recherches cliniques de Montréal. 968 Mt. Sinai Hospital. 12 noon. *Samuel Lunenfeld Research Institute*

### Catalytic Oxidation of Organic Compounds: From Chemical Production to Waste Treatment.

**WEDNESDAY, FEBRUARY 4**

Prof. Karl Chuang, University of Alberta. 116 Wallberg Building. 12:30 p.m. *Chemical Engineering & Applied Chemistry*

### Fetal Alcohol Syndrome: Ethanol Teratogenesis Involving the Hippocampus of the Developing Brain.

**WEDNESDAY, FEBRUARY 4**

Prof. J.F. Brien, Queen's University. 4227 Medical Sciences Building. 4 p.m. *Pharmacology*

### Perceiving the Realm of Plankton.

**FRIDAY, FEBRUARY 6**

Prof. Rudi Strickler, University of Wisconsin at Milwaukee. 3127 South Building, University of Toronto at Mississauga. 12 noon. *UTM Biology*

### The Enclosure of the Genetic Commons: Intellectual Property Rights and Indigenous Knowledge in the Use of Agricultural Biodiversity.

**FRIDAY, FEBRUARY 6**

Joachim Voss, International Development Research Council; development seminar. Conference room, Centre for International Relations, 8th floor, 252 Bloor St. W. 12 noon to 2 p.m. *CIS*

### On Civilizations.

**FRIDAY, FEBRUARY 6**

Prof. Robert Cox, York University. 3050 Sidney Smith Hall. 2 to 4 p.m. *Political Science*

### Grafting Synthetic Polymers to Biomolecules: Synthesis and Applications.

**WEDNESDAY, FEBRUARY 11**

Prof. Allan Hoffman, University of Washington at Seattle. 116 Wallberg Building. 12:30 p.m. *Chemical Engineering & Applied Chemistry*

### Suppression of Intestinal Polyposis in Apc Knockout Mice by Cox-2 Inhibition.

**WEDNESDAY, FEBRUARY 11**

Dr. Masanobu Oshima, Merec Research Laboratories. 968 Mt. Sinai Hospital. 1 p.m. *Samuel Lunenfeld Research Institute*

### GABA-A Receptors: Their Role in Modifying Ethanol Reinforcement.

**WEDNESDAY, FEBRUARY 11**

Prof. D. Tomkins, pharmacology. 4227

Medical Sciences Building. 4 p.m. *Pharmacology*

### Production of Sleep-Like Electrocortical and Respiratory Changes under Anesthesia: An Experimental Model to Investigate Central Influences of Sleep on Breathing.

**THURSDAY, FEBRUARY 12**

Dr. Richard Horner, Department of Medicine. 3231 Medical Sciences Building. 4 p.m. *Physiology and U of T Bookstore*

### Mental Illness, Masculinity and the Psychiatric Body: Somatic Therapies in a 20th-Century State Hospital.

**THURSDAY, FEBRUARY 12**

Prof. Joel Braslow, University of California at Los Angeles; Hannah seminar for the history of medicine. Great Hall, 88 College St. 4 to 6 p.m. *History of Medicine*

### Censorship in the Former Soviet Union after Communism.

**THURSDAY, FEBRUARY 12**

Prof. Marianna Tax Choldin, University of Illinois at Urbana-Champaign. 14352 Robarts Library. 4 to 6 p.m. *CREES*

### Ecology of Extremes: Vegetation in Polar Deserts.

**FRIDAY, FEBRUARY 13**

Prof. Ester Levesque, Université du Québec à Trois-Rivières. 3127 South Building, University of Toronto at Mississauga. 12 noon. *UTM Biology*

### Harold Innis and the Empire of Speed.

**FRIDAY, FEBRUARY 13**

Prof. Ronald Deibert, political science. Conference room, Centre for International Studies, 8th floor, 252 Bloor St. W. 12 noon to 2 p.m. *CIS*



## MEETINGS & CONFERENCES

### Business Board.

**MONDAY, FEBRUARY 9**

Council Chamber, Simcoe Hall. 5 p.m.

### Committee of Academic Policy & Programs.

**WEDNESDAY, FEBRUARY 11**

Council Chamber, Simcoe Hall. 4:10 p.m.

### Grafting Synthetic Polymers to Biomolecules: Synthesis and Applications.

**WEDNESDAY, FEBRUARY 11**

Prof. Allan Hoffman, University of Washington at Seattle. 116 Wallberg Building. 12:30 p.m. *Chemical Engineering & Applied Chemistry*

### Thursday Noon Series.

**THURSDAY, FEBRUARY 5**

Music and Poetry: Michael Colvin, tenor; John Hawkins, piano; Prof. Eric Domville, commentator. Walter Hall. 12:10 p.m.

**THURSDAY, FEBRUARY 12**

My Funny Valentine: love songs across the centuries performed by students from the jazz, vocal and historical performance programs. Walter Hall. 12:10 p.m.

### U of T Symphony Orchestra.

**SATURDAY, FEBRUARY 7**

Uri Mayer, conductor. MacMillan Theatre. 8 p.m. Tickets \$10, students and seniors \$5.

### Small Jazz Ensembles.

**WEDNESDAY, FEBRUARY 11**

Favourite standards and student arrangements and compositions. Walter Hall. 8 p.m.

### Faculty Artist Series.

**FRIDAY, FEBRUARY 13**

Jo-Anne Bentley, mezzo-soprano, with William Aide, piano. Walter Hall. 8 p.m. Tickets \$15, students and seniors \$10.

### CLARKE INSTITUTE

## EVENTS



### EXHIBITIONS

#### UNIVERSITY OF TORONTO AT MISSISSAUGA

##### *Art of Portraiture.*

To FEBRUARY 27

Work of eight contemporary artists using various media. Blackwood Gallery, Kanef Centre. Gallery hours: Sunday to Friday, 1 to 4 p.m.

#### NEWMAN CENTRE Works in Black & White.

To FEBRUARY 28

Drawings, paintings, etchings, photography and copper enamelling. Ground floor. Hours: Monday to Friday, 9 a.m. to 5 p.m.

#### VICTORIA UNIVERSITY Ephemera from the Age of Victoria.

To MARCH 1

Printed and manuscript artifacts from the collection of Barbara Rusch. E.J. Pratt Library. Hours: Monday to Friday, 9 a.m. to 6 p.m.; Saturday and Sunday, 1 to 5 p.m.

#### THOMAS FISHER RARE BOOK LIBRARY

Experiencing India: European Descriptions and Impressions,

1498-1898.

To MARCH 21

Describes the variety of European encounters with the Indian subcontinent from the 16th through the 19th centuries. Hours: 9 a.m. to 5 p.m.

#### UNIVERSITY OF TORONTO ART CENTRE

##### Richard Gorman:

##### Recent Watercolours.

To MARCH 27

Highlights recent gifts. Alcove space.

##### Problem Pictures.

To MARCH 27

Selections from permanent collections; explores problems inherent in any collection: provenance, authenticity, attribution. Boardroom space. Hours: Tuesday and Friday, 11 a.m. to 4 p.m.; Wednesday and Thursday, 11 a.m. to 7 p.m.; Saturday, 12 noon to 4 p.m.

#### JUSTINA M. BARNICKE GALLERY

##### HART HOUSE

FEBRUARY 5 TO MARCH 5

##### Della Husband.

Prints, drawings and paintings. East Gallery.

##### Botanica Barocca.

Jane Buyers, sculpture, drawings and prints. West Gallery. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday, 1 to 4 p.m.

#### UNIVERSITY OF TORONTO AT SCARBOROUGH

##### John Greyson.

FEBRUARY 9 TO FEBRUARY 27

## The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible and in the case of obituaries, a CV is especially welcome.

Please send, deliver or fax the information to:

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## 1998 Teetzel Lectures

### L. MICHAEL WHITE

Professor of Classics & Director of Religious Studies, University of Texas at Austin

### CONTOURS OF CITY, CULT, AND CULTURE

Urban Development and Social Change in the Roman World

Monday, February 9 - *Hellenization, Romanization, Christianization:*

*Mapping Cultural Aesthetics*

Tuesday, February 10 - *Urban Planning and Population: Building the City*

Wednesday, February 11 - *Religion and the Urban Landscape: Renovating the Past*

Thursday, February 12 - *Jews and Christians in the Roman World: Contouring Cult and Culture*

4:30 p.m., Room 140, University College

15 King's College Circle, University of Toronto

Members of the staff, students and the public are cordially invited.

### VARSITY SPORTS

#### Badminton — Men and Women.

SUNDAY, FEBRUARY 8

Ontario University Athletics (OUA) finals. Sports gym, Athletic Centre. 10 a.m. Information: 978-GAME or 978-4113.

#### Swimming — Men and Women.

FRIDAY, FEBRUARY 13 TO

SUNDAY, FEBRUARY 15

Ontario University Athletics (OUA) finals. Friday and Saturday, heats: 8:30 a.m.; finals: 6 p.m.; Sunday, heats: 8:30 a.m.; finals: 3:30 p.m. Pool, Athletic Centre. Tickets for finals \$5, students \$3. Information: 978-GAME or 978-4113.

#### Hockey — Women.

SATURDAY, FEBRUARY 14 AND

SUNDAY, FEBRUARY 15

Ontario University Athletics (OUA) championships. Semifinals, Saturday; finals, Sunday. Varsity Arena. 12 noon and 3 p.m. Tickets \$5, students \$3. Information: 978-GAME or 978-4113.



### DEADLINES

Please note that information for Events listings must be received in writing at The Bulletin offices, 21 King's College Circle, by the following times:

Issue of February 16, for events taking place Feb. 16 to March 2: MONDAY, FEBRUARY 2.

Issue of March 2, for events taking place March 2 to 23: MONDAY, FEBRUARY 16.

### Good Intentions Overruled

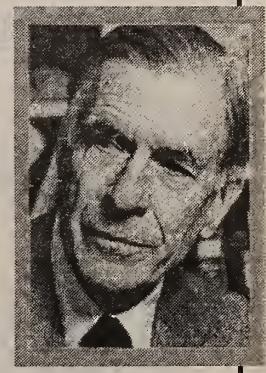
### Good Intentions Overruled

A Critique of Empowerment in the Routine Organization of Mental Health Services

### The Socially Concerned Today

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### REPORT OF THE PROVOST'S TASK FORCE ON TUITION AND STUDENT FINANCIAL SUPPORT

The Report is now available. Any interested member of the University community may pick up a copy from the:

Office of the Vice-President and Provost  
Room 225, Simcoe Hall,  
27 King's College Circle

The Report will be discussed at the February 23rd meeting of the Business Board and at the February 25th meeting of the Academic Policy and Programs Committee of the Academic Board.

The report can also be accessed on the Internet at:  
<http://www.library.utoronto.ca/www/utcomm.htm>

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## COMMITTEES

The Bulletin regularly publishes the terms of reference and membership of committees.

The deadline for submissions is Monday, two weeks prior to publication.

### SEARCH

DIRECTOR, INSTITUTE FOR THE  
HISTORY & PHILOSOPHY OF SCIENCE  
& TECHNOLOGY

A search committee has been established to recommend a director of the Institute for the History & Philosophy of Science & Technology. Members are: Professor Heather Jackson, associate dean, Division I, School of Graduate Studies (chair); Professors Brian Baigrie and Mary Winsor, Institute for the History & Philosophy of Science & Technology; Roberta Frank, Centre for Medieval Studies; Richard Helmstadter, history; Alexander Jones, classics; B.S. Merrilees, French language and literature; and Janet Paterson, associate dean, humanities, Faculty of Arts & Science; and Rachel Urowitz, graduate student, Centre for the Study of Religion.

The committee would be pleased to receive nominations from interested persons until February 28. Submissions should be mailed to Professor Heather Jackson at 65 St. George St.

CHAIR, DEPARTMENT OF SPANISH & PORTUGUESE

A search committee has been established to recommend a chair of the Department of Spanish & Portuguese effective July 1. Members are: Dean Carl Amrhein, Faculty of Arts & Science (chair); Professors Josiah Blackmore, Jim Burke, Rosa Saravia, Ray Skyrme and Ricardo Sternberg, Spanish and Portuguese; Marcel Danesi, Italian studies; Heather Jackson, associate dean, Division I, School of Graduate Studies; and Janet Paterson, associate dean, humanities, Faculty of Arts & Science; and Cristina Santos, graduate student, and Judith Smith, undergraduate student, Spanish and Portuguese.

The committee would appreciate

receiving nominations and comments from interested persons of the university community. These should be submitted to Dean Carl Amrhein, Room 2020, Sidney Smith Hall.

### ADVISORY

CHAIR, DEPARTMENT OF CIVIL ENGINEERING

An advisory committee has been established to recommend a chair of the Department of Civil Engineering. Members are: Dean Michael Charles, Faculty of Applied Science & Engineering (chair); Professors Brenda McCabe, Richard Soberman, John Curran, D.M. Bagley and S.A. Sheikh, civil engineering; W.R. Cluett, chair, first-year, Faculty of Applied Science & Engineering; Grant Allen, chemical engineering and applied chemistry; and Donald Cormack, associate dean, Division III, School of Graduate Studies; and Andrea Boddy, graduate student, and Oy Leauathong, undergraduate student, civil engineering; and Jayne Leake, administrative staff, civil engineering.

Interested members of the university community are invited to communicate, singly or jointly, with any member of the committee with regard to this appointment.

CHAIR, DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

An advisory committee has been established to recommend a chair of the Department of Electrical & Computer Engineering. Members are: Dean Michael Charles, Faculty of Applied Science & Engineering (chair); Professors Jonathan Rose, J.D. Lavers, E.J. Davison, Emilie van Deventer and Jimmy Xu, electrical and computer engineering; Andreas

Mandelis, mechanical and industrial engineering; Ken Sevcik, computer science; Donald Cormack, associate dean, Division III, School of Graduate Studies; and Ron Venter, vice-dean, Faculty of Applied Science & Engineering; and Ella Lund-Thomsen, administrative staff, electrical and computer engineering; Lowell Winger, PhD student, electrical and computer engineering; and Daniel Foisy, club chair, computer engineering.

Interested members of the university community are invited to communicate, singly or jointly, with any member of the committee with regard to this appointment.

CHAIR, DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING

An advisory committee has been established to recommend a chair of the Department of Mechanical & Industrial Engineering. Members are: Dean Michael Charles, Faculty of Applied Science & Engineering (chair); Professors Andrew Goldenberg, David James, Sanjeev Chandra, Paul Milgram and Morton Posner, mechanical and industrial engineering; Yu-Ling Cheng, chemical engineering and applied chemistry; and Donald Cormack, associate dean, Division III, School of Graduate Studies; and Alexandra Relph, graduate student, mechanical and industrial engineering; Marie-Chantal Ross and Adrian Kumar, undergraduate students, mechanical and industrial engineering; Bob Moore, alumnus, Faculty of Applied Science Engineering; and Barbara McCann, registrar, Faculty of Applied Science & Engineering.

Interested members of the university community are invited to communicate, singly or jointly, with any member of the committee with regard to this appointment.

UNIVERSITY ~ OF ~ TORONTO

## THE BULLETIN

EDITOR: Bruce Rolston • bruce.rolston@utoronto.ca

ASSOCIATE EDITOR: Ailsa Ferguson • ailsa.ferguson@utoronto.ca

PRODUCTION: Michael Andrechuk • C.A.Zyvatkauskas • ca.zyvatkauskas@utoronto.ca

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Dr. Dianne Fraser, Psychologist. Carlton at Berkeley, 923-7146. Brief holistic counselling and EMDR. Focus on stress, depression, anxiety, phobia, grief, substance abuse, relationships, women's issues. Complete or partial reimbursement through UT/insurance benefits.

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Research Update is published by University of Toronto Research Services and is filled with information on upcoming funding competitions, ethics issues and other topics of interest to the research community.

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# CREEPING CORPORATISM

*Every cultural institution and sector is in jeopardy*

BY MAUDE BARLOW

Maude Barlow spoke at the Faculty of Information Studies Jan. 22 as part of the Canada by Design speaker series. The following is from her address.

THE COMBINED SALES OF THE TOP 200 transnational corporations are bigger than the combined gross domestic product of all countries minus the biggest nine; that is, they surpass the combined economies of 182 countries. Wal-Mart is bigger than 161 countries including Poland, Israel and Greece. Mitsubishi is larger than Indonesia. General Motors is bigger than Denmark. The Top 200, with a combined revenue of \$7.1 trillion, have almost twice the economic clout of the poorest four-fifths of humanity, whose combined income is only \$3.9 trillion. However, in spite of their enormous wealth and clout, the Top 200 are net job destroyers — so-called virtual corporations, all together, they employ less than a third of one per cent of the world's people.

I don't think we can address the question of how to build a nation if we don't first address the question of whether we are still a nation at all in the traditional sense. Do we in fact, as citizens, hold the policy levers with which to design our future? I have to say no. Our governments have given away these powers with abandon.

From the mid-1930s until recently, successive Canadian governments designed and implemented cultural policies to build a strong and dynamic pool of Canadian artistic talent and cultural enterprises and to ensure that Canadians' own stories were told and our values and history preserved. These policies were created first and foremost to serve Canadians, not to serve an international trade agenda. Living next to the biggest superpower in the world, our ancestors knew they had to carve out a space for our unique Canadian perspective. Public support for Canadian culture has been crucial to our survival as a nation.

In the 1990s, however, every cultural institution and sector is in jeopardy. The assault has been relentless. Funding to the CBC has declined by 47 per cent in a decade and its workforce cut in half. Funding for the Canada Council, the National Film Board and the National Library and Museums was slashed by 30 per cent in the infamous 1995 Martin budget alone. Between 1990 and 1992 most indirect forms of support — tax credits and other incentives to attract investment in publishing, recording and films — dropped from almost \$1 billion to zero.

Meanwhile a handful of powerful private corporations are expanding their control over the media. Conrad Black's Hollinger Inc. now owns or controls 60 of Canada's 105 daily newspapers including 80 per cent of all the papers in Ontario and all the dailies in Saskatchewan, Newfoundland and Prince Edward Island. Black extends his control through his ownership of Canadian Press and CP Broadcast News which owns 425 radio and 76 television stations.

Just 10 corporations control 55 per cent of revenues in radio, an increase of 50 per cent over the past decade. Three giant cable companies have nearly 70 per cent of the market. This trend in Canada mirrors the global trend in which a handful of players like Ted Turner, Disney, Time-Warner and Berlusconi control not only the major entertainment outlets but the news as well.

The Canadian government's enthusiastic promotion of free trade is the final nail in the coffin of Canadian culture. NAFTA's so-called cultural protection is now widely understood to be toothless. Canada has lost its key policies to protect its magazine industry after a ruling from the World Trade Organization. Trade experts all agree this is a precedent-setting decision with far-reaching implications for other cultural policies. U.S. trade representative Charlene Barshefsky was jubilant, saying the decision would serve as a useful weapon against other Canadian cultural practices.

The Canadian Broadcasting Act has been targeted by her



office in a recent report for elimination as a barrier to U.S. exports. WTO has scheduled negotiations for the global deregulation of broadcasting for Jan. 1, 2000.

And now we have MAI.

THE MULTILATERAL AGREEMENT ON INVESTMENT IS A proposed treaty that would dramatically reduce the capacity of national and sub-national governments to limit the degree and nature of foreign investment (both outgoing and incoming) or to impose standards of behaviour on investors. Its purpose is to remove most of the remaining barriers to, and controls on, the mobility of capital and its passage would result in the sharp restriction of the ability of governments everywhere to shape investment policy to promote economic, cultural, social or environmental goals.

MAI is a severely one-sided agreement that will give corporations new rights in law to challenge government policy and new tools to limit the power of elected officials in all the signatory countries. I call it "NAFTA on steroids" because it takes the worst provisions of that agreement, magnifies them and applies them to a whole new host of countries. MAI would grant transnational corporations more power than nation-states in international law.

### TO SAY WE HAVE NO CHOICE IS INTELLECTUAL TERRORISM.

Essentially MAI forbids "discriminating" between domestic and foreign "investors" in any sector. While investors are generally understood to be businesses, MAI considers any government regulations or practices that interfere with the commercial interests of foreign corporations in every sector of the economy — natural resources, health, education, pensions, agriculture and culture included — to be discriminatory and open for challenge.

The most egregious aspect of MAI is that foreign-based transnationals would have rights and powers not accorded to domestic companies. If a government brought in regulations to protect the environment or natural resources or upgrade health or safety standards that cost the industry involved some lost profits, domestic companies would have no choice

but to abide by the new law. Foreign companies, however, could claim compensation for "expropriation" and sue the government under the "investor-state" dispute system. This is the heart of MAI. Governments would have to pay transnational corporations for the right to make law.

To protect our culture the Canadian government is relying on an exemption lodged by the government of France. But it is badly worded, inadequate to Canada's needs and unlikely to be granted by the U.S. in any case. The Canadian government has not launched its own request for a full carve-out for culture nor has it mentioned culture in its reservations.

This means that, as it stands now, only months before final ratification of MAI, none of the practices or policies Canada uses to promote and protect Canadian culture, including newspapers and broadcasting, are safe from challenge by the private sector of every other signatory country to the deal. No subsidy could be given to any Canadian cultural sector, including the CBC, that is not offered equally to foreign "private investors." Canadian content law would be challengeable as discrimination. The ban on setting performance requirements would mean government couldn't insist that foreign companies hire Canadian performers, filmmakers, musicians or writers. These companies could take 100 per cent of their profits back out of the country and we couldn't say a word.

Under MAI a U.S. book publishing giant could buy up a major Canadian publisher and refuse to produce any creative works by Canadians but still qualify for industrial incentives offered by the Canadian government. Book distribution would be open to continental competition, as would bookstores. The government could no longer require radio stations to play Canadian music, television to air Canadian programs or film companies to produce Canadian material to qualify for grants and tax breaks. Tax measures to keep Canadian newspapers in Canadian hands would be illegal.

WE MUST REJECT MAI. THE WORLD BADLY NEEDS RULES TO control global investment but this badly flawed, one-sided agreement is not the answer. Closer to the mark is the 1974 UN Charter of Economic Rights and Duties of States which stated that member nations have the "inalienable right" to "regulate and exercise authority over foreign investment." It granted nations the right to "regulate and supervise the activities of transnational corporations" in the national interest and declared that "transnational corporations shall not intervene in the internal affairs of the host State."

My greatest fear is that, as we lose our identity, our so-called knowledge economy may start to reflect a society drowning in information but starved for purpose. Canada as a knowledge nation must reflect our history and culture, what we know and value. We must move now to protect our culture, broadcasting, newspapers and education system not only from transnational corporations but domination by the Canadian corporate establishment as well. We must reject the siren call of economic globalization based on the model of privatization and competition.

Across sectors, across countries, across race, gender and age lines, employed and unemployed, city and rural, we must find one another and realize that we are now a movement in opposition to corporate rule and probably the only thing that comes between us and the global feudalism of the new economy. We must not accept the prevailing propaganda of inevitability. To say we have no choice is intellectual terrorism.

It will take the rest of our lives even to begin the task before us. But not to try would betray the generations that have come before us and fought so hard for a different world and greatly diminish the dreams of all those who come after.

Maude Barlow is national volunteer chairperson of the Council of Canadians.